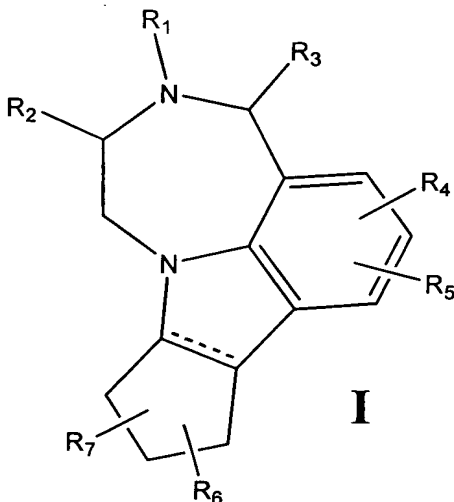


What is Claimed:

1. A compound of the formula:



wherein:

R_1 is hydrogen, $-C(O)CH_3$ or alkyl of 1-6 carbon atoms;

R_2 and R_3 are each, independently, hydrogen, alkyl of 1-6 carbon atoms, cycloalkyl, alkoxy of 1-6 carbon atoms, $-CH_2OH$, fluorinated alkyl of 1-6 carbon atoms, $-NH-SO_2$ -alkyl of 1-6 carbon atoms, $-SO_2-NH$ -alkyl of 1-6 carbon atoms, alkyl amide of 1-6 carbon atoms, amino, alkylamino of 1-6 carbon atoms, dialkylamino of 1-6 carbon atoms per alkyl moiety, fluorinated alkoxy of 1-6 carbon atoms, acyl of 2-7 carbon atoms, aryl, or aroyl;

R_4 and R_5 are each, independently, hydrogen, alkyl of 1-6 carbon atoms, alkoxy of 1-6 carbon atoms, halogen, fluorinated alkyl of 1-6 carbon atoms, $-CN$, $-NH-SO_2$ -alkyl of 1-6 carbon atoms, $-SO_2-NH$ -alkyl of 1-6 carbon atoms, alkyl amide of 1-6 carbon atoms, amino, alkylamino of 1-6 carbon atoms, dialkylamino of 1-6 carbon atoms per alkyl moiety, fluorinated alkoxy of 1-6 carbon atoms, acyl of 2-7 carbon atoms, or aroyl;

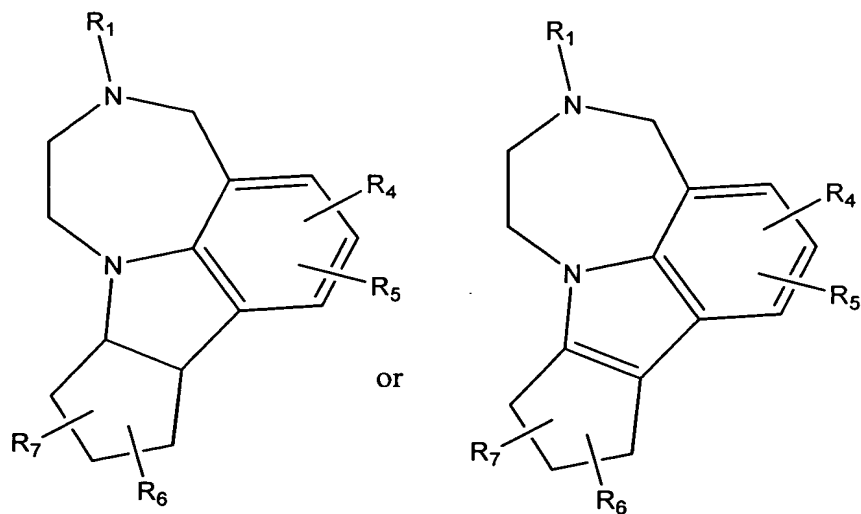
R_6 and R_7 are each independently hydrogen, C_1-C_6 alkyl, cycloalkyl of 3 to 7 carbon atoms or $-CH_2$ -(cycloalkyl of 3 to 7 carbon atoms);

the dashed line indicates an optional double bond;

or a pharmaceutically acceptable salt thereof.

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2. A compound of Claim 1 having the formulae:



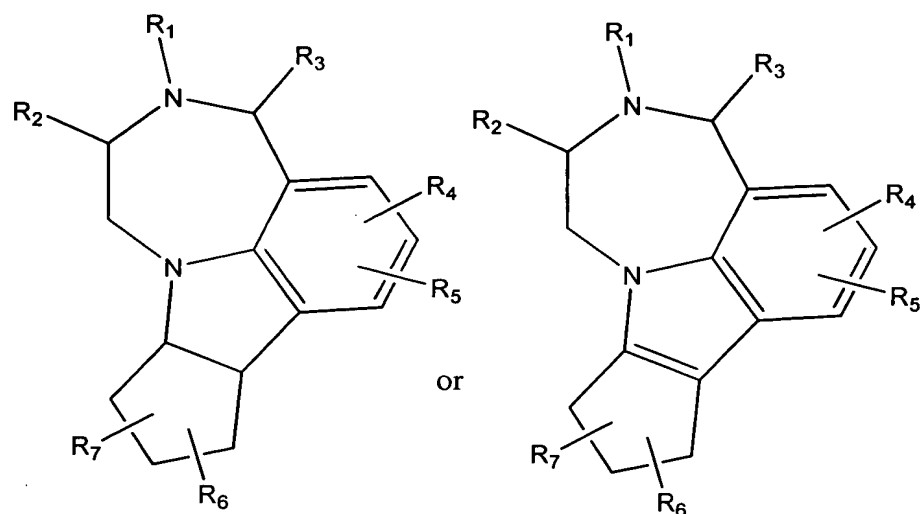
wherein R_1 , R_4 , R_5 , R_6 and R_7 are as defined in Claim 1, or a pharmaceutically acceptable salt thereof.

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3. A compound of Claim 1 wherein R_1 and R_7 are hydrogen and R_1 , R_4 , R_5 , and R_6 are as defined in Claim 1, or a pharmaceutically acceptable salt thereof.

4. A compound of Claim 1 having the formulae:

15



wherein:

R₁ is hydrogen, or alkyl of 1-6 carbon atoms;

5 R₂ and R₃ are each, independently, hydrogen, alkyl of 1-6 carbon atoms, cycloalkyl, alkoxy of 1-6 carbon atoms, -CH₂OH, or fluorinated alkyl of 1 to 6 carbon atoms;

10 R₄ and R₅ are each, independently, hydrogen, alkyl of 1-6 carbon atoms, alkoxy of 1-6 carbon atoms, halogen, -CN, amino or fluorinated alkyl of 1 to 6 carbon atoms;

R₆ and R₇ are each independently hydrogen or C₁-C₆ alkyl;

or a pharmaceutically acceptable salt thereof.

15 5. A compound of Claim 1 which is 1,2,3,4,9,10-Hexahydro-8H-cyclopenta[b][1,4]diazepino[6,7,1-hi]indole or a pharmaceutically acceptable salt thereof.

20 6. A compound of Claim 1 which is 1,2,3,4,8,9,10,10a-Octahydro-7bH-cyclopenta[b][1,4]diazepino[6,7,1-hi]indole or a pharmaceutically acceptable salt thereof.

7. A compound of Claim 1 which is 3-Acetyl-1,2,3,4,8,9,10,10a-octahydro-7bH-cyclopenta[b][1,4]diazepino[6,7,1-hi]indole or a pharmaceutically acceptable salt thereof.

8. A compound of Claim 1 which is (7bR,10aR)-1,2,3,4,8,9,10,10a-octahydro-7bH-cyclopenta-[b][1,4]diazepino[6,7,1-hi]indole or a pharmaceutically acceptable salt thereof.

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9. A compound of Claim 1 which is 6-Methyl-1,2,3,4,9,10-hexahydro-8H-cyclopenta[b][1,4]diazepino[6,7,1-hi]indole or a pharmaceutically acceptable salt thereof.

10. A compound of Claim 1 which is (2S)-(rel-7bR,10aR)-2-Methyl-1,2,3,4,8,9,10,10a-Octahydro-7bH-Cyclopenta[b][1,4]Diazepino[6,7,1-hi]Indole or a pharmaceutically acceptable salt thereof.

11. A compound of Claim 1 which is (2S)-(rel-7bS,10aS)-2-Methyl-1,2,3,4,8,9,10,10a-Octahydro-7bH-Cyclopenta[b][1,4]Diazepino[6,7,1-hi]Indole or a pharmaceutically acceptable salt thereof.

12. A compound of Claim 1 which is (2R)-(rel-7bR,10aR)-2-Methyl-1,2,3,4,8,9,10,10a-Octahydro-7bH-Cyclopenta[b][1,4]Diazepino[6,7,1-hi]Indole or a pharmaceutically acceptable salt thereof.

13. A compound of Claim 1 which is (2R)-(rel-7bS,10aS)-2-Methyl-1,2,3,4,8,9,10,10a-Octahydro-7bH-Cyclopenta[b][1,4]Diazepino[6,7,1-hi]Indole or a pharmaceutically acceptable salt thereof.

14. A compound of Claim 1 which is (2R,7bS,10aS)-1,2,3,4,8,9,10,10a-Octahydro-7bH-Cyclopenta[b][1,4]Diazepino[6,7,1-hi]Indol-2-ylmethanol or a pharmaceutically acceptable salt thereof.

15. A compound of Claim 1 which is *rel*-(4S,7bS,10aS)-4-Methyl-1,2,3,4,8,9,10,10a-Octahydro-7bH-Cyclopenta[b][1,4]Diazepino[6,7,1-hi]Indole or a pharmaceutically acceptable salt thereof.

16. A compound of Claim 1 which is *rel*-(4*R*,7*bS*,10*aS*)-4-Methyl-1,2,3,4,8,9,10,10*a*-Octahydro-7*bH*-Cyclopenta[*b*][1,4]Diazepino[6,7,1-*hi*]Indole or a pharmaceutically acceptable salt thereof.

5 17. A compound of Claim 1 which is 9-Methyl-1,2,3,4,8,9,10,10*a*-Octahydro-7*bH*-Cyclopenta[*b*][1,4]Diazepino[6,7,1-*hi*]Indole or a pharmaceutically acceptable salt thereof.

10 18. A compound of Claim 1 which is (7*bR*,9*R*,10*aR*)-9-Methyl-1,2,3,4,8,9,10,10*a*-Octahydro-7*bH*-Cyclopenta[*b*][1,4] Diazepino[6,7,1-*hi*]Indole or a pharmaceutically acceptable salt thereof.

15 19. A compound of Claim 1 which is 9,9-Dimethyl-1,2,3,4,8,9,10,10*a*-Octahydro-7*bH*-Cyclopenta[1,4]Diazepino[6,7,1-*hi*]Indole or a pharmaceutically acceptable salt thereof.

20 20. A compound of Claim 1 which is (7*b*,10*aR*)-9,9-Dimethyl-1,2,3,4,8,9,10,10*a*-Octahydro-7*bH*-Cyclopenta[*b*][1,4] Diazepino[6,7,1-*hi*]Indole or a pharmaceutically acceptable salt thereof.

21. A compound of Claim 1 which is (7*bS*,10*aS*)-9,9-Dimethyl-1,2,3,4,8,9,10,10*a*-Octahydro-7*bH*-Cyclopenta[*b*][1,4] Diazepino[6,7,1-*hi*]Indole or a pharmaceutically acceptable salt thereof.

25 22. A pharmaceutical composition comprising a pharmaceutically effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier or excipient.

30 23. A method of treatment of schizophrenia in a mammal, the method comprising administering to a mammal in need thereof a pharmaceutically effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof.

24. A method of treatment in a mammal of obsessive-compulsive disorder, depression, anxiety, panic disorder, anxiety, generalized anxiety disorder, obesity or epilepsy, the method comprising administering to a mammal in need thereof a pharmaceutically effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof.

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FOOTNOTES